

IN THE SPECIFICATION

Please replace the paragraph at page 1, lines 16-27, with the following rewritten paragraph:

There is a case where a hidden interface such as an interface between air and liquid contained in an opaque glass or an opaque plastic container must be detected externally. Since there is no earlier method of detecting the internal liquid level if, in particular, a container is opaque or has an opaque sheet such as paper attached on the surface, ~~[[it' s]]~~ the position thereof has to be found through visual observation from the inlet disposed above, and necessary operations for detecting precisely the hidden liquid level must then be carried out. A hidden interface detection apparatus, which detects the hidden interface of materials externally from an opaque container without making contact with inner hidden materials contained in them, has been in demand in order to automate those operations~~[[;]]~~. ~~however~~ However, at present, no appropriate hidden interface detection apparatus and method has been known.

Please replace the paragraph at page 2, lines 2-5, with the following rewritten paragraph:

In view of these situations, it is an object of the present invention to provide an interface detection apparatus and method capable of detecting the hidden interface of materials in an optically opaque environment externally without making contact with ~~them~~ the same.

Please replace the paragraph at page 8, lines 9-17, with the following rewritten paragraph:

Although there are no restrictions on the frequency of the electromagnetic waves used for the interface detection apparatus, according to the first embodiment of the present invention, in principle, as the frequency decreases, the size of the radiation antenna 31 and the detection antenna 32 becomes larger. As a result, the size of the interface detection apparatus becomes larger, making it inconvenient for the operator, or it becomes difficult to use as a measurement unit. More specifically, as the wavelength λ of the electromagnetic wave increases, the size of the detection antenna 32 must be made larger, resulting in [[the]] degradation in resolution for position detection.